

**Figure 2: Complex Fractionator Schematic** 

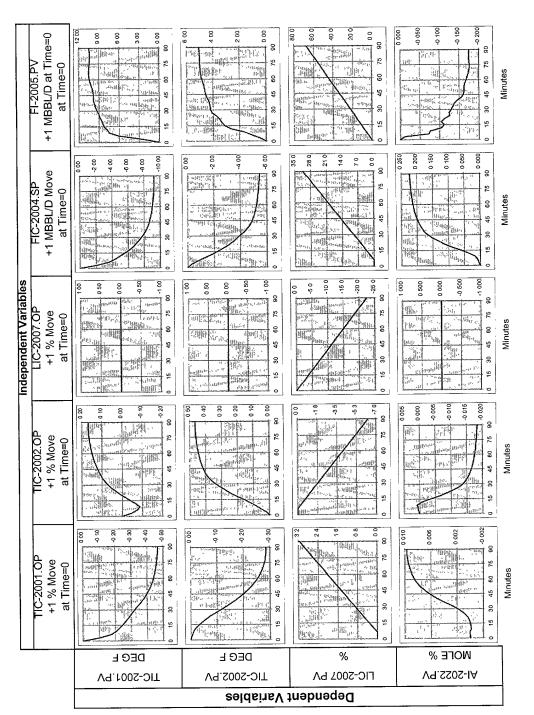


FIG. 3 Fractionator Simulation Based on Valve Position

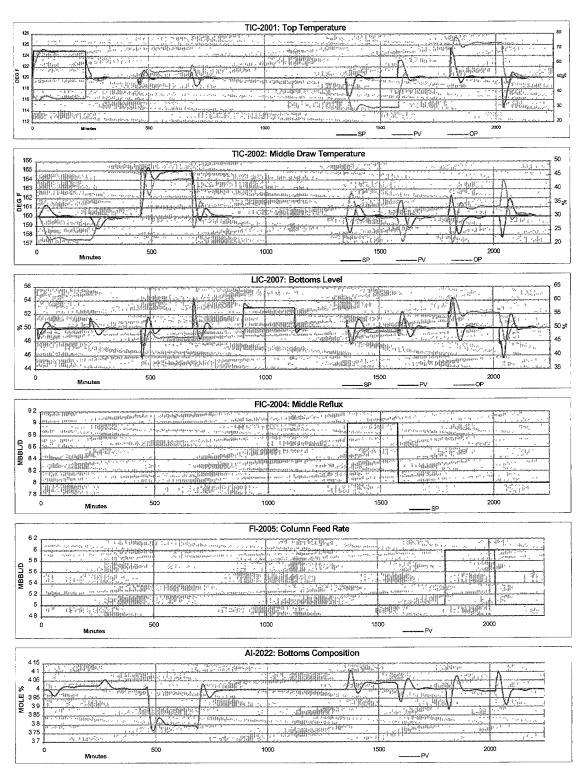


FIG. 4 Column Simulation Plant Test

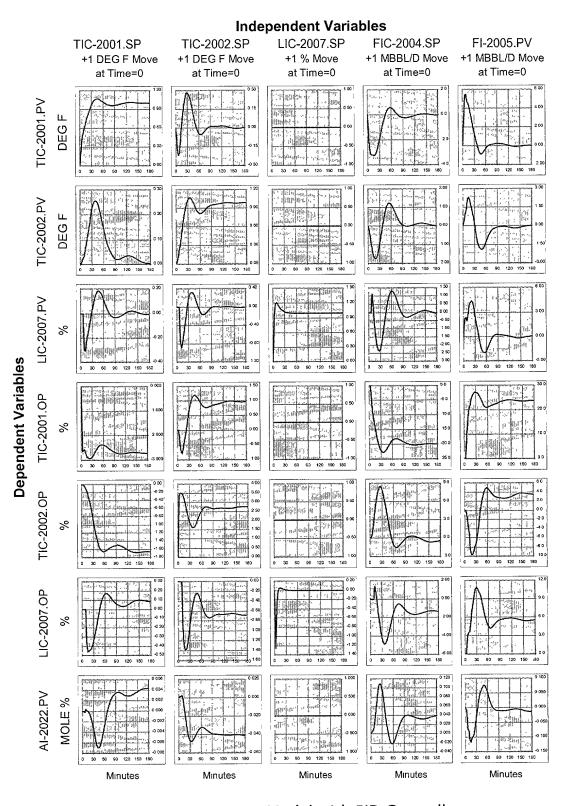
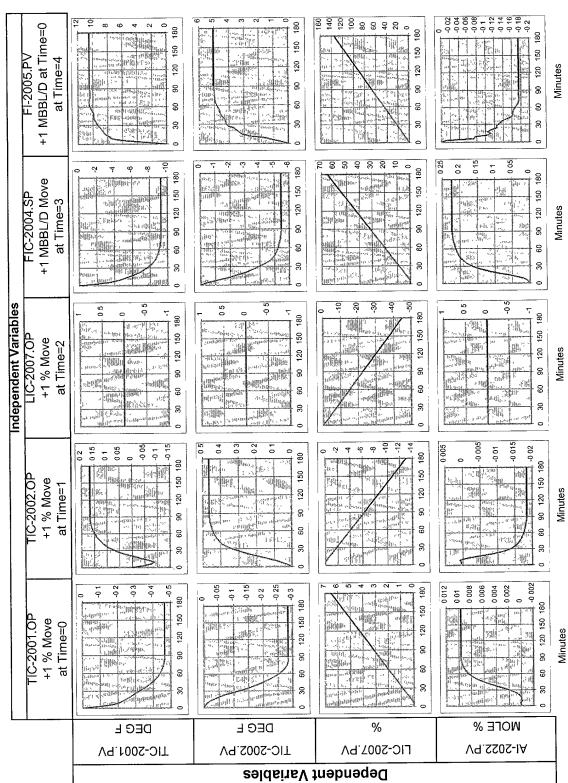


FIG. 5 Fractionator Model with PID Controllers



Original and Recovered Valve Based Models for Fractionator FIG. 6